

ABSTRACT

A pressure vessel has a tank portion for preserving water and a drain mechanism mounted on the tank portion. An outlet is defined at a bottom of the tank portion for draining water. A through hole is defined at a top of the tank portion and corresponding to the outlet for mounting the drain mechanism thereon. The drain mechanism includes a hollow pipe and a separating plate extending horizontally from an inner side and near a top of the hollow pipe. An actuator is assembled on a top of the separating plate for manual operation and has a first resilient element mounted therein. At least a pivot element pivotably connects with the actuator and each forms an anchor at a lower end thereof. A pole extends longitudinally through an interior of the hollow pipe. The pole forms a flange at a top thereof, and defines at least a groove near the flange for latching the anchors. A drain tube is mounted on a bottom of the pole and has a tapered projection substantially at the middle thereof for abutting against the tank portion thereby closing the outlet. A resisting ring is mounted on the drain tube and has an outer rim fixedly retained between the hollow pipe and the drain tube. A biasing ring is mounted on a top of the drain tube and presses against an inner rim of the resisting ring. The pressure vessel has a simplified structure and is easily assembled/disassembled.